

USPTO Customer No. 25280

Case 5072

CLAIMS

Claims 1 – 17. (Withdrawn)

18. (Currently amended) A ~~paperless~~ wallboard comprising:

an integral matrix of set cementitious material extending from one face of the board to the other face of the board; and

a composite material including a carded nonwoven mat and a reinforcing fabric layer bonded together, wherein said ~~composite material is sufficiently open to allow gypsum slurry to flow therethrough and is embedded in one of said faces so that a continuous film of said~~ carded gypsum material extends over an outer face of said composite material.

19. (Currently amended) The wallboard set forth in claim 18, wherein said carded nonwoven mat is made of material selected from the group consisting of polyester, mineral fiber, polyolefin, glass, basalt, polyamides, and any combination thereof.

20. (Currently amended) The wallboard set forth in claim 19, wherein said carded ~~polyester nonwoven mat is~~ carded polyester.

21. (Original) The wallboard set forth in claim 18, wherein said reinforcing fabric layer is made of material selected from the group consisting of glass, mineral fiber, basalt, polyester, polyolefin, polyamides, and any combination thereof.

22. (Previously amended) The wallboard set forth in claim 21, wherein said glass fabric layer includes continuous glass yarns.

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23. (Currently amended) The wallboard set forth in claim 18, wherein said mat and said fabric layer are bonded together ~~using~~ by an adhesive layer positioned between said mat and said fabric layer, said adhesive being selected from the group consisting of polyacrylates, polyvinyl acetate, polyvinyl alcohol, polyvinyl chloride, polyolefin, styrene butadiene rubber, acrylic adhesive, polyvinylidene chloride, and any combination thereof.
24. (Previously amended) The wallboard set forth in claim 18, wherein said mat and said fabric layer are heat bonded together.
25. (Previously amended) The wallboard set forth in claim 18, wherein said mat and said fabric layer are ultrasonically bonded together.
26. (Previously cancelled)
27. (Currently amended) The wallboard set forth in claim 18, further comprising a second layer of said composite material wherein said second layer of composite material is embedded in an opposite face from said first layer of composite material, ~~so that~~ and wherein a continuous film of said ~~gypsum~~ cementitious material extends over an outer face of said second layer of composite material.
28. (Previously amended) The wallboard set forth in claim 18, wherein said fabric layer is selected from the group consisting of woven fabric, knitted fabric, and adhesively bonded fabric.

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29. (Original) The wallboard set forth in claim 18, wherein said reinforcing fabric layer has a yarn density of between 1 thread per inch and 20 threads per inch.
30. (Original) The wallboard set forth in claim 29, wherein said reinforcing fabric layer has a yarn density of between 4 threads per inch and 10 threads per inch.
31. (Previously amended) The wallboard set forth in claim 18, wherein yarn size in said reinforcing fabric layer is in the range between 40 and 4000 denier.
32. (Previously amended) The wallboard set forth in claim 31, wherein said yarn size in said reinforcing fabric layer is in the range between 150 and 2000 denier.
33. (Previously amended) The wallboard set forth in claim 32, wherein said yarn size in said reinforcing fabric layer is in the range between 220 and 1300 denier.
34. (Currently amended) The wallboard set forth in claim 18, wherein said composite is oriented in said wallboard so that said nonwoven mat is facing an outer face of said wallboard, and said reinforcing fabric layer is facing inwardly toward a core of said ~~gypsum~~ cementitious material.

Claims 35 - 51. (Withdrawn)

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52. (New) A paperless wallboard comprising:
- an integral matrix of set cementitious material extending from one face of the board to the other face of the board; and
 - a composite material including a carded nonwoven mat and a reinforcing fabric layer bonded together, wherein said cementitious material extends over an outer face of said composite material.